Novel Hemispherical Scanner for a Coherent Fiber LIDAR System, Phase I

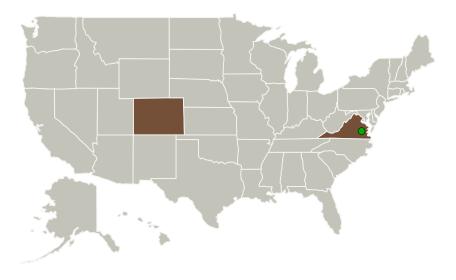


Completed Technology Project (2011 - 2011)

Project Introduction

SibellOptics proposes to develop an eye-safe, long-range, compact, versatile, all-fiber wind LIDAR system for atmospheric wind velocity measurement applications that is more efficient, and reliable, and at a much lower up-front and lifetime cost than any wind LIDAR system currently available. The hardware for this fiber wind LIDAR system has already been designed and the major components identified. Therefore, it is proposed that, for this Phase 1 SBIR program effort, that SibellOptics procure all materials for the scanner / telescope, assemble the sub-system, and run a preliminary test.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Туре	Location
SibellOptics	Lead Organization	Industry	Lafayette, Colorado
Langley Research Center(LaRC)	Supporting Organization	NASA Center	Hampton, Virginia

Primary U.S. Work Locations	
Colorado	Virginia



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Small Business Innovation Research/Small Business Tech Transfer

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Project Transitions

February 2011: Project Start



September 2011: Closed out

Closeout Summary: Novel Hemispherical Scanner for a Coherent Fiber LIDAR System, Phase I Project Image

Closeout Documentation:

• Final Summary Chart Image(https://techport.nasa.gov/file/140177)

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Organization:

SibellOptics

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Project Management

Program Director:

Jason L Kessler

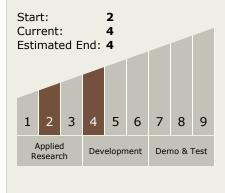
Program Manager:

Carlos Torrez

Principal Investigator:

Russ Sibell

Technology Maturity (TRL)





Small Business Innovation Research/Small Business Tech Transfer

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Technology Areas

Primary:

- TX08 Sensors and Instruments
 TX08.1 Remote Sensing Instruments/Sensors
 TX08.1.5 Lasers
- **Target Destinations**

The Sun, Earth, The Moon, Mars, Others Inside the Solar System, Outside the Solar System

